(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 24 March 2005 (24.03.2005)

PCT

(10) International Publication Number WO 2005/026843 A2

(51) International Patent Classification⁷:

G03F 7/20

(21) International Application Number:

PCT/EP2004/010188

(22) International Filing Date:

13 September 2004 (13.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10343333.3 12 September 2003 (12.09.2003) DE 10 2004 010571.5

26 February 2004 (26.02.2004) DE

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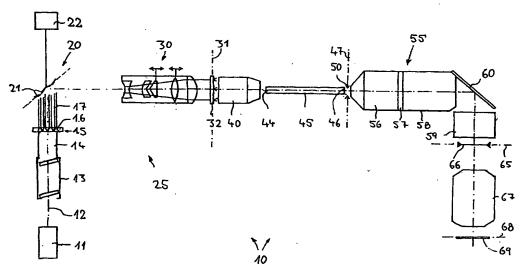
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: ILLUMINATION SYSTEM FOR A MICROLITHOGRAPHY PROJECTION EXPOSURE INSTALLATION



(57) Abstract: An illumination system for a microlithography projection exposure installation is used to illuminate an illumination field with the light from a primary light source (11). The illumination system has a light distribution device (25) which receives light from the primary light source and, from this light, produces a two-dimensional intensity distribution which can be set variably in a pupil-shaping surface (31) of the illumination system. The light distribution device has at least one optical modulation device (20) having a two-dimensional array of individual elements (21) that can be controlled individually in order to change the angular distribution of the light incident on the optical modulation device. The device permits the variable setting of extremely different illuminating modes without replacing optical components.

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FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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